

WE CLAIM:

1. A heat-transfer device comprising:

a hollow heat-transfer member made of a thermally
conductive material and confining a vacuum sealed
5 chamber therein, said heat-transfer member including
a base portion that is adapted to be placed in thermal
communication with a heat source, said base portion
having an outer wall surface, an inner wall surface that
is opposite to said outer wall surface and that
10 confronts said vacuum sealed chamber, and at least one
coolant groove that extends from said inner wall surface
toward said outer wall surface and that is in fluid
communication with said vacuum sealed chamber; and
an amount of liquid coolant contained in said vacuum
15 sealed chamber and collected in said at least one
coolant groove.

2. The heat-transfer device as claimed in Claim 1,
wherein said heat-transfer member further includes a
tubular portion, said base portion being mounted on and
20 closing sealingly one end of said tubular portion.

3. The heat-transfer device as claimed in Claim 2,
wherein said outer wall surface of said base portion
is a flat surface that is disposed outwardly of said
tubular portion and that is adapted to be placed in
25 contact with the heat source.

4. The heat-transfer device as claimed in Claim 2,
wherein said base portion includes an end cap that is

mounted on said one end of said tubular portion, and
a post extension that extends from said end cap and
outwardly of said tubular portion, said at least one
coolant groove being formed through said end cap and
5 extending into said post extension.

5. The heat-transfer device as claimed in Claim 1,
wherein each of said at least one coolant groove has
a guiding edge disposed at said inner wall surface of
said base portion to guide flow of said liquid coolant
10 thereinto.